



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 364 294 A3

12

EUROPEAN PATENT APPLICATION

Application number: 89310537.9

Int. Cl.⁵ **A44B 19/42, A44B 19/34**

Date of filing: 13.10.89

Priority: 14.10.88 JP 257300/88

Date of publication of application:
18.04.90 Bulletin 90/16

Designated Contracting States:
DE ES FR GB IT

Date of deferred publication of the search report:
23.01.91 Bulletin 91/04

Applicant: **YOSHIDA KOGYO K.K.**
No. 1 Kanda Izumi-cho Chiyoda-ku
Tokyo(JP)

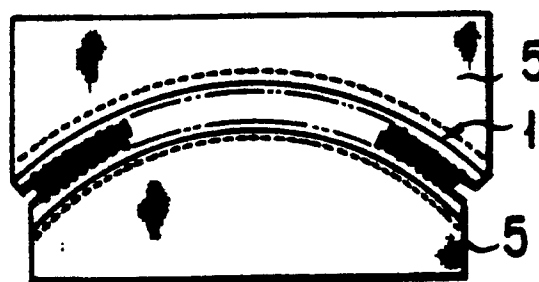
Inventor: **Takada, Shigeki**
4018, Mikkaichi
Kurobe-shi Toyama-ken(JP)

Representative: **White, Martin David et al**
MARKS & CLERK 57/60 Lincoln's Inn
Fieldslds
London WC2A 3LS(GB)

Method for producing curved slide fastener chains and method for producing curved slide fasteners.

A method of producing curved slide fastener chains (1) or a curved slide fasteners is disclosed. Fastener elements (4) are planted along respective side edges of a pair of fastener tapes (2, 3), at least one of which tapes (2, 3) is made of solvent-swelling fibers. The fastener elements (4) planted on the respective tapes (2, 3) are inter-engaged with each other to form a fastener chain (1). A solvent or its aqueous solution, or a solution containing a solvent and dissolving a soluble adhesive, is applied onto either one of the fastener tapes (2, 3) made of solvent-swelling fibers. Subsequently, the fastener chain (1) is shaped into a desired curved configuration. The shaped fastener chain (1) has its curved configuration fixed by being served on a texture/textile (5), by solidification of the adhesive dissolved in the solvent after evaporation of the solvent or by applying an adhesive onto the shaped fastener chain (1) and solidifying the adhesive. By mounting a slider, upper stops and lower stops to the fastener chain (1) before or after the above-described shaping, curved slide fasteners can be similarly produced.

FIG. 1E



EP 0 364 294 A3



European
Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 89 31 0537

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US-A-2 744 313 (G.WARBURTON ET AL) " the whole document "	1-9	A 44 B 19/42 A 44 B 19/34
A	US-A-3 003 212 (G.H.EMERY) " the whole document "	1-9	
A	US-A-3 925 858 (THAELER) " abstract; figures 1-6 "	1-9	
A	GB-A-1 296 22 (GIDEON SUNDBACK) " claims 1-5; figures 1-10 "	1	
A	US-A-3 725 983 (SELVAGGI) " abstract; figures 1-4 "	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			A 44 B
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		23 November 90	KARIPIDOU C.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
Y : particularly relevant if combined with another document of the same category		D : document cited in the application	
A : technological background		L : document cited for other reasons	
O : non-written disclosure			
P : intermediate document		& : member of the same patent family, corresponding document	
T : theory or principle underlying the invention			